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DERWENT-WEEK: 199051

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TITLE: Cpd. textile material for mfr. of  
impermeable cloth - combines layers of synthetic and  
mineral fibres connected by implanting fibres of one layer  
into perforations in other

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PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	
LANGUAGE		MAIN-IPC	
EP 403403 A		December 19, 1990	N/A
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CA 2018567 A		December 16, 1990	N/A
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DE 69002088 E		August 5, 1993	N/A
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EP 403403 B1		June 30, 1993	F
006	D04H	005/02	
FR 2648482 A		December 21, 1990	N/A
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US 5175042 A		December 29, 1992	N/A
043	B32B	003/10	

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CITED-DOCUMENTS: EP 176847; EP 242524 ; EP 315553

APPLICATION-DATA:

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APPL-DATE		
EP 403403A	N/A	
1990EP-0420254	May 29, 1990	
DE 69002088E	N/A	
1990DE-0602088	May 29, 1990	
DE 69002088E	N/A	
1990EP-0420254	May 29, 1990	
DE 69002088E	Based on	EP 403403
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EP 403403B1	N/A	
1990EP-0420254	May 29, 1990	
FR 2648482A	N/A	
1989FR-0008299	June 16, 1989	
US 5175042A	N/A	
1990US-0537928	June 13, 1990	

INT-CL (IPC): B32B003/10, B32B005/06 , D04H001/46 ,  
D04H005/02 ,  
E04D005/12

ABSTRACTED-PUB-NO: EP 403403A

#### BASIC-ABSTRACT:

A multi-layer compound textile material, for use e.g. as a supporting layer for bitumen used in the mfr. of impermeable clothing, consists of at least two non-woven fibre layers which are placed one on top of the other. One of the layers is made on a basis of synthetic, supple and non-breakable fibres, e.g. of polyester, polyamide or polypropylene, while the other is based on relatively fragile mineral fibres such as glass or asbestos, with the two layers combined by a small amt. of the synthetic fibres implanted in the mineral fibres. The mineral fibre layer has its fibres lying more or less parallel to the surface of the compound material, forming a relatively dense layer, and where it joins the synthetic fibre layer it is treated to produce fine perforations in which the synthetic fibres can be implanted to hold the layers together. The treatment can be carried out with the

aid of felting  
needles or fluid jets.

The layers may also incorporate a reinforcing layer between them.

ADVANTAGE - Good adhesion between layers, making the cpd. material suitable for a wide range of applications, e.g. by using non-flammable and thermal insulation surfaces.

ABSTRACTED-PUB-NO: EP 403403B

#### EQUIVALENT-ABSTRACTS:

A multilayer textile laminate of the type comprising at least two superposed nonwoven fibrous sheets, one of the sheets being based on nonbrittle, flexible synthetic fibres such as polyester, polyamide or polypropylene fibres, the other sheet being based on relatively stiff and brittle inorganic fibres (such as glass, asbestos, etc). the bonding between the two layers being obtained by means of a minor part of the synthetic fibres which are implanted into the thickness of the sheet based on inorganic fibres, without projecting at the surface, characterised in that the said fibres are oriented substantially parallel to the surface in the sheet based on inorganic fibres and form a relatively dense assembly, the said sheet being subjected, before its combination with the sheet based on synthetic fibres, to a treatment making it possible to produce fine perforations into its thickness, inside which perforations are preferably implanted the synthetic fibres used to bond the two sheets together.

US 5175042A

A multilayer textile composite, based on fibrous sheets having different

characteristics, comprises at least two superposed nonwoven fibrous sheets.

The first sheet is based on flexible synthetic fibres, e.g. polyester fibres,

arranged in a dense assembly, oriented parallel to the sheet surface, and

having fine perforations in its thickness into which bonding fibres are

implanted. The second sheet is based on inorganic fibres, e.g. glass fibres,

and bonded together by means of a minor part of the synthetic fibres which are

implanted into the perforations through the thickness of the sheet. ADVANTAGE

- Gives improved distribution blending of the synthetic and inorganic fibres.

CHOSEN-DRAWING: Dwg.0/1 Dwg.0/1 Dwg.0/0

TITLE-TERMS: COMPOUND TEXTILE MATERIAL MANUFACTURE  
IMPERMEABLE CLOTH

COMBINATION LAYER SYNTHETIC MINERAL FIBRE  
CONNECT IMPLANT FIBRE ONE  
LAYER PERFORATION

DERWENT-CLASS: A17 A23 A94 F04 P73 Q45

CPI-CODES: A03-C03; A12-B02; A12-C02; A12-S05G; F02-C01;  
F03-D03; F03-E01;  
F04-C;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0011 0231 0248 1283 1291 1983 2486 2528 2628  
2629 3252 2679 2711

2715 2723 2724 2820 2844

Multipunch Codes: 014 04- 041 046 050 141 143 144 251 308  
32& 440 441 477 481

483 539 54& 551 560 566 567 597 600 617 619 622 664 665 688  
723

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